Tuo Wi-Fi RF Nero

VE773700

Smart thermostats / Climate Control



230 Vac wall-mounted electronic touch-screen smart thermostat with humidistat, Wi-Fi, and RF modules, weekly programming. The keyboard features four touch keys, positioned on either side of the display. The colour of the display backlight can be customised by the user. Device designed for temperature and humidity control. Thanks to the Wi-Fi connection, the device can be remotely controlled in all its functions, using the free app available for iOS and Android. The boiler (or air conditioner), the dehumidifier and the fan unit are activated by corresponding remote actuators, controlled via radio frequency signals, without the need for wiring. Enables boiler or air conditioner control via device relay.

General features

- Plastic base for wall-mounted installation or for covering a 3-module flush-mounted box
- Display showing measured temperature and humidity as well as set programming
- Backlit touch keys on the sides of the display
- Terminal block on the back of the device for connecting load and power supply
- Integrated Wi-Fi module compatible with 802.11 b/g/n standards
- Integrated RF module for sending control signals to remote actuators
- Application for iOS and Android systems
- Compatible with Google Home and Amazon Alexa
- 3 independent radiofrequency communication channels for temperature, humidity, and VMC
- Operating mode selectable between heating, air conditioning or off
- Humidity control in air conditioning mode with an independent intervention threshold or linked to the detected temperature via alarm threshold to contain humidity and thus avoid dew point
- Automatic weekly programming with 3 temperature levels: T1, T2, T3
- On/off (with settable differential), proportional or tP (with opening modulation for coupling with ThermoPro RF thermostatic valves) regulation
- Control of a mechanical ventilation unit (VMC) via independent weekly programming
- Anti-freeze temperature to prevent system freezing when the device is in OFF state
- Configurable display backlighting:
  - Always off
  - Always on (colour chosen from 48 shades or variable between red, green, and blue depending on difference between measured and set temperature)
  - On with daily timing by selecting ON and OFF times
- Timing function: Maintains the current operating mode (automatic, manual, or off) for a set period of time, after which the device automatically switches to the specified mode.
- Delay function (configurable for each hour): adjusts the temperature for the first 15, 30, or 45 minutes of the current hour according to the temperature level set for the previous hour
- Local operation lock function: device can only be controlled via the app (keyboard input ignored)
- Possibility to reduce the range of settable temperatures (factory preset 2 ÷ 50 °C)
- Automatic summer/sunshine time change and automatic synchronisation of date and time when connected to Wi-Fi network
- Keypad lock function with password to prevent modifications by unauthorised people
- Classification according to point 6 of European Commission Communication 2014/C 207/02: class IV

Technical specifications

Power supply	
Power supply	230 Vac (-10% ÷ +10%)

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Revision date: 2026-02-02

Power supply	
Frequency	50 / 60 Hz
Temperature settings	
Settable temperatures	3 + antifreeze + manual
Temperature setting range Manual	2 ÷ 50 °C
Temperature setting range Automatic	2 ÷ 50 °C
Temperature setting range Antifreeze (Off)	OFF, 1 ÷ 50 °C
Parameter settings	
Type of adjustment	ON-OFF, proportional or tP (aperture-modulated for coupling with ThermoPro RF thermostatic valves)
Differential/Hysteresis	0.1 ÷ 1 °C
Modes of operation	Summer Winter
Programming	Weekly
Programming resolution	1 hour
Measure	
Temperature measuring range	0 ÷ 50 °C
Humidity measuring range	20% ÷ 90% RH
Temperature display resolution	0.1 °C
Humidity display resolution	0,1% RH
Temperature measurement accuracy	0.5 °C
Humidity measurement accuracy	5% RH
Functions	
Measured humidity value displaying	✓
Humidistat function	✓
Timing function	✓
Automatic daylight saving/standard time changeover	✓
Keypad lock function	✓
Delay function	✓
Manageable by application	✓
Manageable by virtual assistant	✓
Connectivity	
Transmission frequency	433,92 MHz
Maximum transmitted radio frequency power	-10 dBm
Operating conditions	
Operating temperature range	0 ÷ 50 °C
Relative humidity	20% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C

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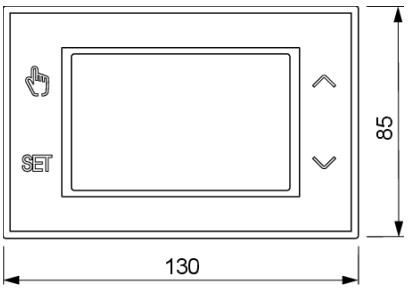
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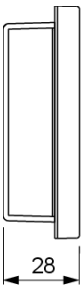
Approvals and certifications	
Classification according to point 6 of Communication 2014/C 207/02 of the European Commission:	Class IV
Viewing	
Display	Backlit LCD
Outputs	
Relay number	1
Relay type	Heat exchange
Relay capacity at 250 Vac	5 A
Terminations	
Maximum cable cross-section	1.5 mm²
Mechanical features	
Protection degree	IP40
Physical features	
Color	Black
Device command	Touch screen
Backlighting	✓
Backlight color	Multicolor
Overall dimensions	
Height (A)	85 mm
Width (B)	130 mm
Depth (C)	28 mm

Dimensions

Front View

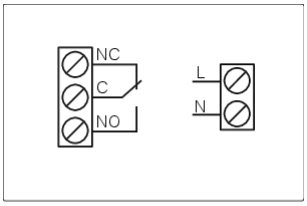


Side View



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Wiring diagram



Remote control

Fully manageable via smartphone and tablet app

Clima Vemer

Clima Vemer is the smart app designed to provide total control over Vemer's entire range of Smart thermostats and humidistats even remotely. With this app, users can adjust their heating and air conditioning system settings quickly and conveniently, ensuring maximum comfort and energy efficiency, all through Internet connectivity.

App features

- **Program management**
  Allows creating, editing, and renaming programs directly on the smartphone.
- **On / Off**
  Allows switching the air-conditioning system on and off.
- **Temperature management**
  Allows changing the operating temperature values.
- **Holiday**
  Allows setting vacation days during which the system remains off.
- **Local operation**
  Allows controlling the device exclusively via app, ignoring changes made via the keypad.
- **Room Management**
  In each home, office or building, it allows the identification of various rooms (Living Room, Bathroom, Room,...).
- **Building management**
  It allows you to create the home, office, and general buildings that group devices together.
- **Alarm notifications**
  Allows setting alarm notifications (e.g. exceeding preset thresholds) to be notified by email or via push notification.

Product variants

Tuo Wi-Fi RF Bianco

VE773600

Weekly Wi-Fi touch-screen wall-mounted 230 Vac smart thermostat with multi-colour LCD display, RF module and humidistat function. White colour

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Product set

Set Tuo Wi-Fi RF Nero

VE786700

Configured set consisting of Tuo Wi-Fi RF Nero and RX.16A actuator

Accessories compatible with the product

RX1-8A

VE015400

230 Vac DIN-rail remote actuator for radio frequency devices with 1 relay 8A/250V

RX7-5A

VE443800

230 Vac wall-mounted remote actuator for radio frequency devices with 6 relays 8A/250V

RX1-8A P

VE471900

230 Vac wall-mounted remote actuator for radio frequency devices with 1 relay 8A/250V

RX.16A

VE736500

Flush-mounted 230 Vac remote actuator for radio frequency devices with 1 relay 16A/250V

ThermoPro RF

VE741500

Battery-powered weekly smart thermostat for radiators. Radio-frequency module. Color: white.

RX4-8A

VN943700

230 Vac wall-mounted remote actuator for radio frequency devices with 4 relays 8A/250V

Reference standards

Compliance with Community Directives:

• 2014/53/UE (RED) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN 62479 • EN IEC 60730-2-7 • EN IEC 60730-2-9 • ETSI EN 300 220-1 • ETSI EN 300 220-2 • ETSI EN 300 328 • ETSI EN 301 489-1 • ETSI EN 301 489-3 • ETSI EN 301 489-17 • EN 18031-1 • EN IEC 63000

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